Montana Board of Oil and Gas Conservation Environmental Assessment

Operator: MRC LLC
Well Name/Number: State 15-11
Location: SW SE Section 11 T37N R4E
County: Liberty MT; Field (or Wildcat) Whitlash (East State Unit)
Air Quality
(possible concerns)
Long drilling time: No, 5 to 6 days drilling time.
Unusually deep drilling (high horsepower rig): No. 3100' TD.
Possible H2S gas production: No H2S anticipated.
In/near Class I air quality area: No Class I air quality area nearby.
Air quality permit for flaring/venting (if productive) Yes, DEQ air quality permit required
<u>under 75-2-211.</u>
Mitigation:
X Air quality permit (AQB review)
Gas plants/pipelines available for sour gas
Special equipment/procedures requirements
Other: Comments: Gas plant nearby. no special concerns – using small rig to drill to
3100'TD.
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Water Quality
(possible concerns)
Salt/oil based mud: No, freshwater and freshwater mud system.
High water table: No high water table anticipated.
Surface drainage leads to live water No. closest drainage is an unnamed ephemeral
tributary drainage to Dohrs Creek, to the south of this location.
Water well contamination: No, closest water wells are at about 1/2 of a mile to the east,
about. Deepest well nearby is in Section 10 to the west and is 250' deep. If this well is
successful, production casing will be cemented to surface. Surface casing will be set to
350' and cemented to surface.
Porous/permeable soils: No, bentonite clay sandy soils.
Class I stream drainage: None in the area of review.
Mitigation:
Lined reserve pit
X Adequate surface casing
Berms/dykes, re-routed drainage
Closed mud system
Off-site disposal of solids/liquids (in approved facility)
Other:
Comments: 350' of surface casing cemented to surface adequate to protect
freshwater zones. Also, fresh water mud systems to be used for all drilled hole. 4 ½" production casing will be cemented to surface, if well is successful.
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Soils/Vegetation/Land Use

(possible concerns)
Steam crossings: No, stream crossings anticipated.
High erosion potential: No, a small cut, up to 5.1' and fill, up to 6.0', required.
Loss of soil productivity: No, location will be restored after drilling, if nonproductive. If
productive unused portion of drillsite will be reclaimed.
Unusually large wellsite: No, a small location size is required.
Damage to improvements: Slight, surface use is grassland.
Conflict with existing land use/values Slight
Mitigation
Avoid improvements (topographic tolerance)
Exception location requested
X Stockpile topsoil
Stream Crossing Permit (other agency review)
X Reclaim unused part of wellsite if productive
Special construction methods to enhance reclamation
Other
Comments: Access will be over existing county gravel roads, Flat Coulee road.
Will construct a very short new access road into this location. Cuttings will be buried in
the earthen reserve pit. Fluids will be allowed to evaporate. Pit will be backfilled when
dry. No special concerns.
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Health Hazards/Noise
(possible concerns)
Proximity to public facilities/residences: Wallace Ranch is about 1 mile to the west and
the Schafer Ranch is about ¾ of a mile to the south from this location.
Possibility of H2S: No H2S anticipated.
Size of rig/length of drilling time: Small single derrick drilling rig. Short drilling time,
estimated 5 to 6 days.
Mitigation:
X Proper BOP equipment
Topographic sound barriers
H2S contingency and/or evacuation plan
Special equipment/procedures requirements
Other:
Comments: No concerns. Distance and topographical features should
mitigate any noise issues.
Wildlife/recreation
(possible concerns)
Proximity to sensitive wildlife areas (DFWP identified): None identified.
Proximity to recreation sites: None identified
Creation of new access to wildlife habitat: No, next to well used county road.
Conflict with game range/refuge management: No game range/refuge nearby.
Threatened or endangered Species: Species listed as threatened and endangered is
the Black-Footed Ferret. Candidate species are the Greater Sage Grouse and the
Sprague's Pipit. NH Tracker website lists the following species as "Species of Concern".

Longspur.
Mitigation:
Avoidance (topographic tolerance/exception)
Other agency review (DFWP, federal agencies, DSL)
Screening/fencing of pits, drillsite
Other:
Comments: Location is close to a well traveled county gravel road and in an
active oil field, Whitlash Oil Field. No concerns.
Historical/Cultural/Paleontological
(possible concerns)
Proximity to known sites None identified.
Mitigation
avoidance (topographic tolerance, location exception)
other agency review (SHPO, DSL, federal agencies)
Other:
Comments: Private surface grasslands.
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Social/Economic
(possible concerns)
Substantial effect on tax base
Create demand for new governmental services
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I conclude that the approval of the subject Notice of Intent to Drill (does/<u>does not</u>) constitute a major action of state government significantly affecting the quality of the human environment, and (does/<u>does not</u>) require the preparation of an environmental impact statement.

Prepared by (BOGC): <u>/s/Thomas Richmond</u> (title:) Administrator
Date: Aug 29 2013
Other Persons Contacted:
Montana Bureau of Mines and Geology, GWIC website
(Name and Agency)
Liberty County water wells
(subject discussed)
Aug 29 2013
(date)
US Fish and Wildlife, Region 6 website (Name and Agency) ENDANGERED, THREATENED, PROPOSED AND CANDIDATE SPECIES MONTANA COUNTIES, Liberty County (subject discussed)
July 8, 2011
(date)
If location was inspected before permit approval: Inspection date: Inspector:
Others present during inspection: